In the Claims:

Please cancel claims 139 and 143-144 and enter the following amended claims:

Claims 1-137 (canceled).

138. (currently amended). A microelectronic device useful for the electrochemical detection of a nucleic acid species, said device comprising:

a microelectronic substrate having first and second opposing faces;

a plurality of conductive oxidation-reduction detection electrodes on said first face; and

[an] plurality of oligonucleotide capture probes immobilized on a non-conductive layer on said first face adjacent said conductive electrodes;

with each of said different oligonucleotide capture probes positioned adjacent a different conductive electrode;

and with each of said plurality of oligonucleotide probes and said oxidation-reduction detection electrodes electrically connected by an aqueous solution having the same transition metal complex therein.

139 (Cancelled).

140 (original). A microelectronic device according to claim 138, further comprising a contact electrically connected to said conductive electrode.

141 (original). A microelectronic device according to claim 138, wherein said substrate is silicon.

142 (original). A microelectronic device according to claim 138, wherein said oligonucleotide capture probe is from 4 to 100 nucleotides in length.

Claims 143-151 (canceled).